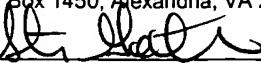


## CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on:

Date: November 1, 2006

By:   
Steven Goldstein

## PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: THOMSON ET AL.

APPLICATION No.: 10/666,848

FILED: SEPTEMBER 17, 2003

FOR: WIRELESS LAN MANAGEMENT

EXAMINER: NOT ASSIGNED

ART UNIT: 1746

CONF. No: 5768

Information Disclosure Statement Within Three Months of Application Filing or Before First Action – 37 C.F.R. § 1.97(b)

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The undersigned submits the following references without admitting that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art. The undersigned, in an effort to focus the scope of this review, has identified the following subset of references as **most relevant** to the subject invention:

## U.S. PATENT DOCUMENTS

Cite No.	U.S. Patent or Application Number	Name of Patentee or Inventor of Cited Document	Date of Publication or Filing Date of Cited Document
1.	6,317,599	Rappaport et al.	11/01
2.	6,512,916	Forbes, Joseph W.	1/03
3.	6,687,498	McKenna et al.	2/04
4.	6,879,812	Agrawal et al.	4/05
5.	6,973,622	Rappaport et al.	12/05

6.	2004/0259555	Rappaport et al.	12/04
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**A. Timing of Submission**

This information disclosure is being filed within three months of the filing date of this application or date of entry into the national stage of an International Application or before the mailing date of a first Office Action on the merits or before the mailing date of a first Office Action on the merits after the filing of a Request for Continued Examination under 37 CFR §1.114, whichever occurs last (37 CFR 1.97(b)(4)). The references listed on the enclosed Form PTO-1449 (modified) may be material to the examination of this application; the Examiner is requested to make them of record in the application.

**B. Cited Information**

- Copies of references 1-110 are issued patent(s) and published application(s) and are not included (see C.F.R. § 1.98(a)(2)(i)).
- Copies of references 111-130 are enclosed.

**C. Effect of Information Disclosure Statement (37 C.F.R. § 1.97(h))**

This Information Disclosure Statement is not to be construed as a representation that: (i) a search has been made; (ii) additional information material to the examination of this application does not exist; (iii) the information, protocols, results and the like reported by third parties are accurate or enabling; or (iv) the cited information is, or is considered to be, material to patentability. In addition, applicant does not admit that any enclosed item of information constitutes prior art to the subject invention and specifically reserves the right to demonstrate that any such reference is not prior art.

**D. Fee Payment**

No fees are believed due because this Information Disclosure Statement is being filed before the mailing date of the first Office Action.

However, should the Commissioner determine that fees are due in order for this Information Disclosure Statement to be considered, the Commissioner is hereby authorized to charge such fees to Deposit Account No. 50-2207.

**E. Patent Term Adjustment (37 C.F.R. § 1.704(d))**

- The undersigned states that each item of information submitted herewith was cited in a communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this statement. 37 C.F.R. § 1.704(d).

Respectfully submitted,  
Perkins Coie LLP



William F. Ahmann  
Registration No. 52,548

Date: November, 1, 2006

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(650) 838-4300

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/666,848
				Confirmation Number	5768
				Filing Date	September 17, 2003
				First Named Inventor	Alan Thomson
				Group Art Unit	1746
				Examiner Name	Not Assigned
Sheet	1	of	6	Attorney Docket No.	43390-8002.US01

<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Publ. Applns. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	1.	2004/0259555		Rappaport, et al.	12/04	
	2.	2005/0073980		Thomson et al.	4/05	
	3.	2005/0180358		Kolar et al.	8/05	
	4.	3,641,433		Mifflin et al.	2/72	
	5.	4,168,400		De Couasnon et al.	9/79	
	6.	4,176,316		DeRoas et al.	11/79	
	7.	4,247,908		Lockart et al.	1/81	
	8.	4,291,401		Bachmann	9/81	
	9.	4,291,409		Weinberg et al.	9/81	
	10.	4,409,470		Shepard et al.	10/83	
	11.	4,460,120		Shepard et al.	7/84	
	12.	4,475,208		Ricketts	10/84	
	13.	4,494,238		Groth, Jr.	1/85	
	14.	4,500,987		Hasegawa	2/85	
	15.	4,503,533		Tobagi et al.	3/85	
	16.	4,550,414		Guinon et al.	10/85	
	17.	4,562,415		McBiles	12/85	
	18.	4,630,264		Wah	12/86	
	19.	4,635,221		Kerr	1/87	
	20.	4,639,914		Winters	1/87	
	21.	4,644,523		Horwitz	2/87	
	22.	4,672,658		Kavehrad	6/87	
	23.	4,673,805		Shepard et al.	6/87	
	24.	4,707,839		Andren et al.	11/87	
	25.	4,730,340		Frazier	3/88	
	26.	4,736,095		Shepard et al.	4/88	
	27.	4,740,792		Sagey et al.	4/88	
	28.	4,758,717		Shepard et al.	7/88	
	29.	4,760,586		Takeda	7/88	
	30.	4,789,983		Acampora et al.	12/88	

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

Form PTO-1449 (Modified)  
(Use several sheets if necessary)

Sheet 2 of 6 Attorney Docket No. 43390-8002.US01

**COMPLETE IF KNOWN**

Application Number	10/666,848
Confirmation Number	5768
Filing Date	September 17, 2003
First Named Inventor	Alan Thomson
Group Art Unit	1746
Examiner Name	Not Assigned

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Publ. Appns. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		NUMBER	Kind Code (if known)			
	31.	4,829,540		Waggener et al.	5/89	
	32.	4,850,009		Zook et al.	7/89	
	33.	4,872,182		Mcrae et al.	10/89	
	34.	4,894,842		Brockhaven et al.	1/90	
	35.	4,901,307		Gilhousen et al.	2/90	
	36.	4,933,952		Albrieux et al.	6/90	
	37.	4,933,953		Yagi	6/90	
	38.	4,955,053		Simpson et al.	2/91	
	39.	5,008,899		Yamamoto	4/91	
	40.	5,029,183		Tymes	7/91	
	41.	5,103,459		Gilhousen et al.	4/92	
	42.	5,103,461		Tymes	4/92	
	43.	5,109,390		Gilhousen et al.	4/92	
	44.	5,142,550		Tymes	8/92	
	45.	5,151,919		Dent	9/92	
	46.	5,157,687		Tymes	10/92	
	47.	5,187,575		Dent et al.	2/93	
	48.	5,231,633		Hluchyj et al.	7/93	
	49.	5,280,498		Tymes et al.	1/94	
	50.	5,285,494		Sprecher et al.	2/94	
	51.	5,329,531		Diepstraten	7/94	
	52.	5,418,812		Reyes et al.	5/95	
	53.	5,479,441		Tymes et al.	12/95	
	54.	5,488,569		Huang et al.	9/95	
	55.	5,450,615		Fortune et al.	9/95	
	56.	5,465,401		Thompson	11/95	
	57.	5,479,441		Tymes et al.	12/95	
	58.	5,483,676		Mahany et al.	1/96	
	59.	5,491,644		Pickering et al.	2/96	
	60.	5,517,495		Lund	5/96	

EXAMINER

DATE CONSIDERED

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> Form PTO-1449 (Modified) (Use several sheets if necessary)				<b>COMPLETE IF KNOWN</b>	
				Application Number	10/666,848
				Confirmation Number	5768
				Filing Date	September 17, 2003
				First Named Inventor	Alan Thomson
				Group Art Unit	1746
				Examiner Name	Not Assigned
Sheet	3	of	6	Attorney Docket No.	43390-8002.US01

<b>U.S. PATENT DOCUMENTS</b>					
Examiner Initials*	Cite No.	U.S. Patent or Application		Name of Patentee or Inventor of Cited Document	Publ. Appns. Date of Publication, Issue Date of Cited Document, or Filing Date of Applications.
		NUMBER	Kind Code (if known)		
	61.	5,519,762		Bartlett	5/96
	62.	5,528,621		Heiman <i>et al.</i>	6/96
	63.	5,561,841		Markus	10/96
	64.	5,568,513		Croft <i>et al.</i>	10/96
	65.	5,598,532		Liron	1/97
	66.	5,630,207		Gitlin <i>et al.</i>	5/97
	67.	5,640,414		Blakeney <i>et al.</i>	6/97
	68.	5,649,289		Wang <i>et al.</i>	7/97
	69.	5,668,803		Tymes <i>et al.</i>	9/97
	70.	5,793,303		Koga	8/98
	71.	5,794,128		Brockel <i>et al.</i>	8/98
	72.	5,812,589		Sealander <i>et al.</i>	9/98
	73.	5,815,811		Pinard <i>et al.</i>	9/98
	74.	5,828,960		Tang <i>et al.</i>	10/98
	75.	5,584,048		Wieczorek	12/96
	76.	5,844,900		Hong <i>et al.</i>	12/98
	77.	5,875,179		Tikalsky	1/99
	78.	5,896,561		Schrader <i>et al.</i>	4/99
	79.	5,915,214		Reece <i>et al.</i>	6/99
	80.	5,920,821		Seazholtz <i>et al.</i>	7/99
	81.	5,933,607		Tate <i>et al.</i>	8/99
	82.	5,949,988		Feisullin <i>et al.</i>	9/99
	83.	5,953,669		Stratis <i>et al.</i>	9/99
	84.	5,960,335		Umemoto <i>et al.</i>	9/99
	85.	5,982,779		Krishnakumar <i>et al.</i>	11/99
	86.	5,987,062		Engwer <i>et al.</i>	11/99
	87.	5,987,328		Ephremides <i>et al.</i>	11/99
	88.	6,005,853		Wang <i>et al.</i>	12/99
	89.	6,011,784		Brown	1/00
	90.	6,078,568		Wright	6/00

EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application(s).	

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				Examiner Name	Not Assigned
Sheet	4	of	6	Attorney Docket No.	43390-8002.US01

### U.S. PATENT DOCUMENTS

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		NUMBER	Kind Code (if known)			
	91.	6,088,591		Trompower	7/00	
	92.	6,119,009		Baranger <i>et al.</i>	9/00	
	93.	6,199,032	B1	Anderson	3/01	
	94.	6,208,841		Wallace <i>et al.</i>	3/01	
	95.	6,208,629		Jaszewski <i>et al.</i>	3/01	
	96.	6,218,930		Katzenberg <i>et al.</i>	4/01	
	97.	6,240,083		Wright	5/01	
	98.	6,256,334		Adachi	7/01	
	99.	6,285,662		Watannabe	9/01	
	100.	6,336,035		Somoza <i>et al.</i>	1/02	
	101.	6,356,758	B1	Almeida <i>et al.</i>	3/02	
	102.	6,393,290	B1	Ulfongene	5/02	
	103.	6,404,772	B1	Beach <i>et al.</i>	6/02	
	104.	6,473,449	B1	Cafarella <i>et al.</i>	10/02	
	105.	6,493,679	B1	Rappaport <i>et al.</i>	12/02	
	106.	6,496,290	B1	Lee	12/02	
	107.	6,580,700	B1	Pinard <i>et al.</i>	6/03	
*	108.	6,625,454	B1	Rappaport <i>et al.</i>	9/03	
	109.	6,659,947	B1	Carter <i>et al.</i>	12/03	
	110.	6,687,498	B1	McKenna, <i>et al.</i>	2/04	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent or Application			Name of Patentee or Applicant of Cited Document	Date of Publication Date of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	NUMBER	Kind Code (if known)				
	111.	PCT	WO94/03986		WIPO	2/94		
	112.	PCT	WO99/11003		WIPO	3/99		

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				Group Art Unit	1746
				Examiner Name	Not Assigned
Sheet	5	of	6	Attorney Docket No.	43390-8002.US01

<b>OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published.			T
	113.	Acampora and Winters, IEEE Communications Magazine, 25(8):11-20 (1987).			
	114.	Acampora and Winters, IEEE Journal on selected Areas in Communications. SAC-5:796-804 (1987).			
	115.	Bing and Subramanian, IEEE, 1318-1322 (1997).			
	116.	Durgin, et al., "Measurements and Models for Radio Path Loss and Penetration Loss in and Around Homes and Trees at 5.85 GHz", IEEE Transactions on Communications, vol. 46, No. 11, Nov. 1998.			
	117.	Freret et al., Applications of Spread-Spectrum Radio to Wireless Terminal Communications", Conf. Record, Nat'l Telecom. Conf., Nov. 30- Dec. 4, 1980.			
	118.	Fortune et al., IEEE Computational Science and Engineering, "Wise Design of Indoor Wireless Systems: Practical Computation and Optimization", pg. 58-68 (1995).			
	119.	Geier, Jim, Wireless Lans Implementing Interoperable Networks, Chapter 3 (pp. 89-125) Chapter 4 (pp. 129-157) Chapter 5 (pp. 159-189) and Chapter 6 (pp. 193-234), 1999, United States.			
	120.	Ho et al., "Antenna Effects on Indoor Obstructed Wireless Channels and a Deterministic Image-Based Wide-Based Propagation Model for In-Building Personal Communications Systems", International Journal of Wireless Information Networks, vol. 1, No. 1, 1994.			
	121.	Kim et al., "Radio Propagation Measurements and Prediction Using Three-Dimensional Ray Tracing in Urban Environments at 908 MHz and 1.9 GHz", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.			
	122.	Kleinrock and Scholl, Conference record 1977 ICC Volume 2 of 3, June 12-15 Chicago Illinois "Packet Switching in radio Channels: New Conflict-Free Multiple Access Schemes for a Small Number of data Useres", (1977).			
	123.	LAN/MAN Standars Committee of the IEEE Computer Society, Part 11:Wireless LAN Medium Access Control (MAC) and Physical Layer (PHY) Specifications:Higher Speed Physical Layer Extension in the 2.4 GHz Band, IEEE Std. 802.11b (1999).			
	124.	Okamoto and Xu, IEEE, Proceeding so of the 13th Annual Hawaii International Conference on System Sciences, pp. 54-63 (1997).			
	125.	Panjwani et al., "Interactive Computation of Coverage Regions for Wireless Communication in Multifloored Indoor Environments", IEEE Journal on Selected Areas in Communications, vol. 14, No. 3, Apr. 1996.			
	126.	Perram and Martinez, "Technology Developments for Low-Cost Residential Alarm Systems", Proceedings 1977 Carnahan Conference on Crime Countermeasures", April 6-8, pp. 45-50 (1977).			
	127.	Piazzini et al., "Achievable Accuracy of Site-Specific Path-Loss Predictions in Residential Environments", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.			

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				Examiner Name	Not Assigned
Sheet	6	of	6	Attorney Docket No.	43390-8002.US01

128.	Seidel <i>et al.</i> , "Site-Specific Propagation Prediction for Wireless In-Building Personal Communications System Design", IEEE Transactions on Vehicular Technology, vol. 43, No. 4, Nov. 1994.	
129.	Skidmore <i>et al.</i> , "Interactive Coverage Region and System Design Simulation for Wireless Communication Systems in Multi-floored Indoor Environments, SMT Plus" IEEE ICUPC '96 Proceedings (1996).	
130.	Ullmo <i>et al.</i> , "Wireless Propagation in Buildings: A Statistic Scattering Approach", IEEE Transactions on Vehicular Technology, vol. 48, No. 3, May 1999.	

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<p>*EXAMINER: Initial if reference considered, whether or not criteria is in conformance with MPEP 609. Draw line through citation if not in conformance <u>and</u> not considered. Include copy of this form with next communication to application(s).</p>	